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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/472,067	12/23/1999	A-Li W. Hu	0942.4340002	8277	
-	7590 07/16/2003				
STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W.			EXAMINER		
WASHINGTO	N, DC 20005		ZARA, JANE J		
			ART UNIT	PAPER NUMBER	
			1635	24	
			DATE MAILED: 07/16/2003	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/472,067

Applicant(s)

Examiner

Art Unit

Hu et al

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renod for Reply		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET THE MAILING DATE OF THIS COMMUNICATION.		I(S) FROM				
 Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the If NO period for reply is specified above, the maximum statutory period will apply a Failure to reply within the set or extended period for reply will, by statute, cause the Any reply received by the Office later than three months after the mailing date of the earned patent term adjustment. 	he statutory minimum of thirty (30) days will be and will expire SIX (6) MONTHS from the mailin	considered timely. g date of this communic				
Status						
1) Responsive to communication(s) filed on Jan 30, 2	003					
2a) ☐ This action is FINAL . 2b) ☑ This act			 '			
3) Since this application is in condition for allowance eclosed in accordance with the practice under Ex pair	except for formal matters, prosec	cution as to the r	merits is			
Disposition of Claims	te Guayle, 1935 C.D. 11; 453 (J.G. 213.				
4) 🔯 Claim(s) <u>35-72</u>	is/are	nondina in the s	P			
4a) Of the above, claim(s)	19/416	pending in the a	pplication.			
5) Claim(s)	is/are		consideration.			
5) ☐ Claim(s)		s/are allowed.				
71 90 11 11 12	is	s/are rejected.				
	is	/are objected to	•			
8) ClaimsApplication Papers	are subject to restrict	on and/or election	on requirement.			
9) The specification is objected to by the Examiner.						
15/die i	a) □ accepted or b) □ objected	to by the Exami	ner.			
Applicant may not request that any objection to the dra 11) The proposed drawing correction filed on	awing(s) be held in abeyance. See :	37 CFR 1.85(a).				
If approved, corrected drawings are required in reply to	this Office action)∟ disapproved	by the Examiner.			
12) The oath or declaration is objected to by the Examin						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgement is made of a claim for foreign price	ority under 35 U.S.C. § 119(a)-(c	l) or (f).				
a) ☐ All b) ☐ Some* c) ☐ None of:						
1. U Certified copies of the priority documents have	been received.					
2. U Certified copies of the priority documents have	been received in Application No.					
3. U Copies of the certified copies of the priority doc application from the International Bureau		is National Stag	 e			
See the attached detailed Office action for a list of the	certified copies not received.					
Acknowledgement is made of a claim for domestic p	riority under 35 U.S.C. § 119(e).					
and the transfer of the foleight language provisional a	application has been received.					
5) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Notice of Butters of Continues	Interview Summary (PTO-413) Paper No(s					
Notice of Dest.	Notice of Informal Patent Application (PTC					
Information Disclosure Statement (DTO 1440) S	Other:	- 1 34)				
			<u> </u>			

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DETAILED ACTION

This Office action is in response to the communications filed November 27, 2002 and January 30, 2003, Paper Nos. 20 and 21.

Claims 35-72 are pending in the instant application.

Continued Prosecution Application

The request filed on November 27, 2002 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/472,067 is acceptable and a CPA has been established. An action on the CPA follows.

Any rejections not repeated in this Office action are hereby withdrawn.

Response to Arguments and Amendments

Applicant's arguments with respect to claims 1-21 and 23-34 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 35-41, 43-53 and 55-72 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims are drawn to compositions and methods to make compositions comprising a double stranded nucleic acid molecule which comprises two or more copies of a repeat-containing sequence, wherein the top strand of the repeat-containing sequence has substantially the same percentage of each respective nucleotide as in the bottom stand and adjacent copies of repeatcontaining sequences are separated by a restriction site. The specification and claims do not describe a representative number of species in the genus comprising any and/or all double stranded nucleic acid molecules that comprise any and/or all repeat-containing sequences having substantially the same percentage of each respective nucleotide in the bottom and top strands. Concise structural features that could distinguish structures or compounds within the genus from others are missing from the disclosure. The general knowledge and level of skill in the art do not supplement the omitted description because specific, not general, guidance is what is needed. The specification fails to teach or adequately describe a representative number of species in the broad genus claimed, such that the common attributes or characteristics concisely identifying members of the genus are exemplified. And because the genus is highly variant, the description provided is insufficient. Therefore, one of skill in the art would reasonably conclude that the disclosure fails to provided a representative number of species to describe the genus claimed.

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Thus, Applicant was not in possession of the claimed genus, comprising nucleic acid molecules that have repeat-containing sequences with the same percentage of each respective nucleotides in the bottom and top stands.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 35, 36, 39, 41, 43, 48, 49 and 51 rejected under 35 U.S.C. 102(b) as being anticipated by Oncor.

Oncor teaches a linear nucleic acid molecule (DNA) comprising two or more copies of a repeat-containing sequence, wherein the top strand of the repeat-containing sequence has substantially the same percentage of each respective nucleotide as in the bottom stand and adjacent copies of palindromic, repeat-containing sequences are separated by a restriction site (e.g. Pst 1) that generates sticky ends upon digestion (See v-fes, met-D and met-H on page 172), also see accompanying Eco R1 and Pst 1 restriction site nucleotides sequences).

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Allowable Subject Matter

Claims 42 and 54 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

Certain papers related to this application may be submitted to Art Unit 1635 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone numbers for the Group are (703) 308-4242 and (703) 305-3014. NOTE: If Applicant *does* submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jane Zara** whose telephone number is (703) 306-5820. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader, can be reached on (703) 308-0447. Any inquiry regarding this application should be directed to the patent analyst, Katrina Turner, whose telephone number is (703) 305-3413. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

CAREN LACOURCIERE PATENT EXAMINER Page 6

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